

# ABSTRACT

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2 This invention is directed to a new low molecular weight copolymer  
3 (The PIB/UAR copolymer) that may be prepared by reacting a low molecular  
4 weight polyisobutene (PIB) having less than about 32 carbon atoms with an  
5 unsaturated acidic reagent in the presence of a free radical initiator. No chain  
6 transfer agent is required to prepare the low molecular weight PIB/UAR  
7 copolymer. The PIB/UAR copolymer may be useful as is, or as an  
8 intermediate for (1) polysuccinimides, (2) detergents or dispersants for lube oil  
9 or fuels, (3) pour point depressants and (4) surface sizing agents for paper.  
10 The PIB/UAR copolymer may be used by itself or as the ester, amide, imide  
11 or metal salt derivative of the PIB/UAR copolymer. The PIB/UAR copolymer  
12 may be liquid at ambient temperature.